

Zero Beat



Hampden County Radio Association

June 2013

Field Day coming soon!



(Ed, KB1NWH) **Field Day** is an annual [amateur radio](#) exercise, widely sponsored by [IARU](#) regions and member organizations, encouraging [emergency communications](#) preparedness among [amateur radio operators](#). In the United States, it is typically the largest single emergency preparedness exercise in the country, with over 30,000 operators participating each year.

Since the first ARRL Field Day in 1933, radio amateurs throughout [North America](#) have practiced the rapid deployment of radio communications equipment in environments ranging from operations under tents in remote areas to operations inside [Emergency Operations Centers](#) (EOCs). Operations using emergency and alternative power sources are highly encouraged, since electricity and other public infrastructures are often among the first to fail during a [natural disaster](#) or [severe weather](#).

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To determine the effectiveness of the exercise and of each participant's operations, there is an integrated [contesting](#) component, and many clubs also engage in concurrent leisure activities (camping out, cookouts, etc.). Operations typically last a continuous twenty-four hours, requiring scheduled relief operators to keep stations on the air. Additional contest points are awarded for experimenting with unusual modes, making contacts via satellite, and involving youth in the activity. (copied from WIKI)



Now that you know what it is (as if you already didn't): This year the HCRA Field Day is going to be held at School Street Park in Agawam. Here is the LAT LONG for some of you: 42.073316,-72.595346

and here is the Google link

<https://maps.google.com/maps?q=42.073316,-72.595346&hl=en&num=1&t=h&z=15>

The Green arrow is a little left/west of the location. The entrance is the drive way to the north side of School Street.

We are erecting 3 towers this year and having 5 operating stations on these towers. We are going to have two tri-banders, one 75 meter dipole, one 80 meter dipole, one 40



meter dipole, and new this year, a 40 meter beam.

So please come out and join in the fun and meet some of the local hams that you hear on the radio.

All stations are open for your use no matter what your license level is. We will be using the HCRA Club call W1NY. Hope to see you at the new location on June 22nd and 23rd. Starting @ 2PM Saturday and Ending @ 2PM on Sunday. Please come early if you want to assist with the tower assembly.

Ed, KB1NWH

FROM THE SHACK

Next Meeting June 7th: Indoor Flea Market, Field Day Planning, WRTC, Annual Elections

And now for something completely different! Er, well, almost. We've decided to take our traditional HCRA June Tailgate party and move it inside this year. The availability of a larger space, with air conditioning, makes a whole lot of sense don't you think? Unlike years past we won't be charging for table space. We are suggesting a 10% donation of your profits go to HCRA. See additional information about this event elsewhere in June's Zero Beat.

HCRA Field Day 2013: June 22nd-23rd, setup June 21st

The focus of tonight's meeting will be Field Day. The Field Day committee has wrapped up the bulk of the 'behind the scenes' organizing. Now it's your turn to raise your hand and participate. The new move to School Street Park has caused us to look closely at how we approach Field Day. We'll reveal our thoughts at tonight's meeting. Just as a teaser, HCRA Field Day 2014 will more closely represent a traditional Field Day/Emergency Communication event than a picnic. We're still open to ideas and would love to hear yours. Put your thinking cap on about what Field Day means to you and voice your thoughts at the meeting!

We're also discussing WRTC 2014 tonight (it is kind of like Field Day) and HCRA's role in this world-class event from now until 2014.

Announcing the new *250* Raffle: A nice mobile transceiver could be yours!

The last *250* raffle was a huge success! Chris/KB1RMA got himself a nice new KX3 for only \$100 investment (yes, he did buy ten tickets). I know he's been enjoying his new toy (just like Dan/KB1VWQ is enjoying his) but we thought we would "change it up" a bit this time around.

The new *250* prize is a Yaesu FT-857D, mobile/base, 100W, HF to 440 transceiver. This great prize, including a separation kit, could be yours for as little as a \$10 donation. Read all about this exciting prize in a separate article here in June's Zero Beat.

As always, thanks for your support of our *250* raffles. Your donations go a long way to ensuring HCRA is able to give back to all our members!

Annual Elections

June is the month of our annual elections. We're presenting a slate that has one position open: Technical Director. If



Jim operating NEISJ on Peak Mountain, Connecticut

you think you would like to join the board in this capacity let us know tonight at the meeting and we'll put you on the slate. See the proposed slate of officers/directors elsewhere in this issue.

Foxhunting? Are you still interested?

Rich/N1KXR volunteered to be the point person organizing foxhunting this year. Many of you signed up at the February and March meetings and have received at least one group email so far. If you're serious about having some foxhunting fun I urge you to get together with Rich at tonight's meeting. Rich is more than willing to assist getting it off the ground but he can't do it by himself.

NEWS FLASH! – HCRA purchases four WRTC stations!

Delivery July 2014

At our last meeting your board approved the purchase of up to four of the WRTC stations from the WRTC2014 group. Briefly these stations consist of a top notch tri-band beam, 38' of Rohn 25 tower, tent, tables, chairs, coax, Yaesu rotor, dipoles and a 2KW Honda generator. Because of HCRA's support of WRTC operations in all three years (2012-2014) we received a sizeable discount.

What are our plans for the equipment? Some of the equipment is slated for Field Day, the rest of it will be offered to our members at appropriate discounts. It will be more than a year before we take delivery so we have plenty of time to work out the details. As they say, "stay tuned!"

73, and see you at the meeting,

Jim/KK1W



Yaesu FT-857D for only \$10?

How would you like to add a Yaesu FT-857, all mode, 160 through 70cm rig to your mobile or home shack? It's easy; you can either pick up the phone, call HRO and order one (and plunk down almost a kilobuck) *OR* --- buy a \$10 raffle ticket at the next HCRA meeting.

We are proudly announcing the latest HCRA *250* Raffle.



The prize this time around is a brand new Yaesu FT-857D, HF/VHF/UHF transceiver. Here's a brief rundown of this cool radio's impressive features:

- 160-2 meters +440
- Electronic Keyer
- 200 Alpha Memories
- DSP-2 Board Built-in
- 100 Watts HF Output
- 50 Watts 2 Meter Output
- 20 Watts 440 MHz Output
- Spectrum Display

The *250* means only 250 tickets will be sold. Even if you purchase only one ticket your chances are much better than the lottery. Buy two tickets and double your odds, buy four and... I think you get the picture.

This is a great compact rig that would look nice in any shack or vehicle. Tickets go on sale starting at our June 7th meeting. The drawing is scheduled for March 7, 2014 HCRA meeting or at the MTARA Fleamarket – which ever comes first (MTARA date TBD). It could be earlier if we sell all the tickets. Included with the radio is a separation kit that makes it easy to mount the radio in almost any vehicle.

We appreciate the support you've given the club with our past raffles and look forward to giving away this great radio next March.

Don't forget to buy your ticket(s) early before they're all gone!

*'73 and good luck,
Jim/KK1W*

Nominations now being accepted for June elections

The 2014 Election will be held at our June 7th meeting. As in years past many board members have once again raised their hands to help guide HCRA through another year of fun and excitement. For many of them this will be another year of many serving HCRA. Wouldn't it be great if YOU stepped forward and offered a little bit of time every month to ensure our club is the best it can be? Not only would it provide some 'down time' for a present board member – more importantly it is an opportunity to bring new views, different ideas and more exciting activities to our club. Are you ready to give it a try?

Listed below is the slate as it stands right now. There's only one position shown open but we are VERY open to nominations for all positions. As a team we are flexible, supportive and willing to move our present positions around to accommodate a new member. If it turns out we have more than one candidate for a position even better. We can hold a run off election in June, how cool is that?

It says a lot about our present board and their effectiveness that there aren't a lot of 'willing volunteers' for nominations. Unfortunately that's a double edged sword. Although things are going well, if we don't encourage new board members we'll eventually stagnate and then comes the 'upheaval'. HCRA has been through these in the past and we should attempt to avoid it in the future. Enough rambling on, here's the slate as it stands on March 16th.

HCRA Proposed Slate of Officers/Directors for 2014

Directors:

At large: John/Kx1x

Membership: Rich/N1KXR

Technical: OPEN

Program: Matt/W1MSW

Zero Beat Editor: Frandy/N1FJ

Officers:

Secretary: Dave/N1MFL

Treasurer: Dave/AA1YW

Vice President: Ed/KB1NWH

President: Jim/KK1W

Trust me, if you're interested in making HCRA a better, stronger organization there is a place for you on the board. Contact [Jim/KK1W](#) and let's talk.

Return to Dayton: Hamvention 2013

(Larry, WB1DBY) Back during Field Day 2012, which I spent in Long Lake, NY with the Bear Bait Radio Club (BBRC), I started talking up Dayton. Most of the hams had not even heard of it, much to my surprise. One ham, JJ, KC2FEV, was very interested in joining me on my quest to return to the Hamvention in May of 2013.

As the months passed, we tried recruiting 2 other hams to join us for the trip. Having extra bodies would help conversation, make the miles go quicker and help spread the fuel and hotel costs out more as well as providing extra drivers. We ended up with one more ham, Paul K2QCG from Baldwinsville, NY. Paul lived on the west side of Syracuse and JJ on the east side.

JJ got a great price on a hotel in Miamisburg for just \$67 per night and it included a continental breakfast, no smoking rooms, fridge and heat/ac if we needed it. And was about 20 min from the Hara Arena where the Hamvention is held. JJ and I shared a room and Paul had one to himself. On Wednesday, May 15th, I left the Springfield area for JJ's house in Bridgeport, NY (which borders beautiful Oneida Lake). 230 miles and about 3.5 hours later I arrived at JJ's house. We did dinner and then went to the BBRC monthly meeting. The BBRC is a tiny club and only about a dozen people were present at the meeting. I knew nearly everyone but did meet a few new hams.

The next day, May 16th we got into JJ's big Ford F-250 diesel truck, picked up Paul and headed to Dayton. We did hit a few traffic slowdowns and what should have been about a 8 hour ride for 560 miles was around 12 hours. We got to the hotel, chatted with other hams and settled in for the night. I was excited about the Hamvention the next day and JJ and Paul were extremely excited to be attending for the first time themselves. For me, this was my 50th birthday present from my family, for Paul it was his 80th birthday present from his wife.

Both JJ and I were concerned that it would be too much walking for Paul. But he seemed to gain energy the longer we spent walking around. He did great! But we all had very sore feet at the end of the 3 days.



Friday JJ and I tackled the flea market first. We weren't there 10 minutes before I was carrying a radio box around with me. I found a Icom IC-703+ in excellent condition for a very good price. I now

had my camping rig and could leave my TS-590s home from now on. I saw a few other 703s for much more money and not in as good condition. It was a good purchase. Soon enough JJ had a radio box too and little things started

to be collected by both of us. The backpacks started to fill with "stuff". One thing we both bought was a LNR end fed 40/20/10 wire antenna that was small and portable.



JJ bought some other antennas and I was lured by the Begali, K8RA and other cw paddles. I kept returning to the booths and have to say the Begali

paddles were very nice but extremely expensive. But the K8RA paddles were also very nice, felt real good and much more affordable and soon enough a P2jr paddle was in my backpack. The P2jr is a small, portable brass paddle with rosewood finger pieces and not only looks great on my wood desk at home, but feels great to use. I'm very happy with that purchase and now have a few cw paddles for sale if anyone is interested contact me. (www.k8ra.com) (http://www.i2rtf.com/html/keys_paddles.html).

We met up with Paul at the end of the day and he had his hands full with antennas, tuners, paddles and more. He was concerned his wife would go ballistic when she found out what he bought. And it was just the end of day one!

Day two started much the same way, with JJ and I perusing the flea market first. We were both attracted to a booth that had Goal Zero solar panels and products. We both made little purchases there with the promise to investigate the products more. (www.goalzero.com) One thing we did notice was that the big discounts that I have seen in past years did not exist this year. Most items were priced at list price or very slight discount. That's not to say there wasn't bartering, because there was and we did. But it was disappointing that nothing at all stood out as a fantastic deal.

I did bump in to Rob Macedo, KC1DY, the SKYWARN Coordinator for the National Weather Service in Taunton, and a few other hams from MA and CT that I know. It's always fun being so far from home and bumping into someone I know from home. We also spent time chatting with other hams during lunch at the Hamvention as well as during dinner or rest periods. JJ and I were amazed at how many hams came in from overseas. Even when we were getting ready to leave, we were chatting with a ham from Great Britain. It was fun.

It's also fun to stop by the major manufacturers and talk to them and get a new hat. But this year it was mouse



pads, not hats. The Kenwood booth was swamped with people looking at the new TS-990s big transceiver. I spent some time talking

with another ham who also likes Kenwood and he couldn't figure out the menus. But it took me about 50 seconds to figure them out and explain them to him. The 990's menu system is so user friendly and ergonomic, anyone can adapt to it very easily. And like the 590, it's one of those radios that if you don't use it for a while, it's very easy to re-learn without needing lessons or a return to the manual. That's a Kenwood trademark and it continues with this big rig.

Of course Elecraft was there and their booths were very busy as was the SteppIR booth which had the new CrankIR



antenna on display and they were taking orders for it. I have to say the CrankIR is definitely a unusual antenna. I don't know if I would buy one if I had the spare change though. I think I'd have to see a demo again. But the few times I did watch, I was intrigued and curious. They were accepting orders for them. SteppIR had an amazing portable tower with one of their large antennas on top. It was a Field Day dream.

Arduino had a good booth with lots of interest. Ten Tec had just announced a open source qrp radio and their Argonaut VI was of major interest too. Small QRP rigs were definitely the craze. LNR was showing a tiny 5 watt box that did

cw and ssb, Tokyo High Power had what looked like a old fashioned HT but in reality is a 5 band, HF, ssb and cw 5 watt with built in antenna tuner and



LCD display HT. There were a few other Chinese 5 watt and preview of a 20 watt hf QRP rigs. One was an X1M. Google it. The ARRL had a big display and

I saw Mike, N1TA. The league announced its 2014 100th anniversary hamvention in Hartford CT for July 17-19th at the Hartford Convention Center. Should be fun and is in my schedule already.

At the end of the 2nd day, we spread JJ's end fed LNR antenna thru the hotel room, turned on his FT-817 and even though it was very noisy



in the hotel, signals were popping in and the antenna tuned as promised. The wire was hooked over the smoke alarm, door hinge, across the beds, thru a coat hangar and back again. It was a pretty funny set up.

Saturday night we met up with a cousin of Faye's, W3FOX, and Ken, K4 something at Young's Jersey Dairy Restaurant and had a fabulous



meal. We had stopped at this restaurant all the other times I was at Dayton on the suggestion of Jim, KK1W. It's not to be missed as the food is worth the stop.

Sunday came quickly and we swept thru the flea market



once again and the inside vendors as well. We then headed to the Wright Patterson National Air Force Museum, which I've been to twice before and never seen it all. I

completed most of the museum until my feet gave out (the Aleve helped a lot) and while we were there, 10 buses filled with Korean War Veterans were touring the museum as well. I spoke to some and they made for some good conversation. There were 450 of them plus nurses and spouses and headed to Washington, DC. They were all from the midwest.

Monday we packed up and headed back to JJ's house. But first we stopped outside Cleveland at the AES store. What a dismal place that was. Compared to our HRO in Salem, NH, this store looked 30 years old. I would be surprised

if that store didn't go out of business soon. And they wouldn't even let one of us use their rest room. We had to go down the street to a McD's. It was a very disappointing stop.



The rest of the trip we were delayed by a lot of traffic and construction and the 8 hour trip took 14 hours. I spent the night at JJ's house and headed home the next day. It was an easy drive with no delays and a beautiful day too. But it was good to be home.

I don't think I'll make Dayton in 2014, going to the ARRL's big bash in Hartford instead. But maybe a few years later...

It was fun and if you have not been, I urge you to go when you have the opportunity. It's worth it.

73, Larry, WB1DBY

HCRA volunteers attend WRTC-2014 training session

(Jim, KK1W) On June 1, 2013, four volunteers from HCRA spent the afternoon with about one hundred other enthusiastic amateurs at a training session held in and on the grounds of Milara Inc. in Milford, MA. The purpose of the session was preparation for the World Radiosport Team Championships to be held in New England in 2014.



Attendees began arriving around 7:30 AM. Everyone signed in, filled out their publicity release forms and while enjoying complimentary coffee & donuts were also give the opportunity to purchase a complete WRTC station or perhaps some 'lighter fare' like WRTC T-shirts and hats. At 8:30 everyone assembled in the presentation area for the first segment of the day's training.

For approximately two hours Doug/K1DG, Mark/K1RX and Tom/K1KI reviewed notes and presented changes based on feedback from the 2012 tests. Many things learned from 2012 tests have been implemented or improved upon for 2013. Doug then discussed the 2013 test goals. For this year we are looking to setup 30 test stations at thirteen sites spread along the I-495 corridor from NH to the Cape. All stations will be on the air for the 2013 IARU contest, but operating under WRTC rules. Following this Tom and Mark talked about the organization required to get to 30 stations QRV this year and of course 65 stations in 2014. At the conclusion of the presentation we all 'took a break' and went outdoors....

While enjoying the bright New England sunshine and 80 degree temperatures participants got to – you guessed it – *participate*. Two beam teams pulled equipment from the storage area, assembled the antennas/rotator/towers and within two hours had them vertical and ready to operate.



While the beam teams were erecting towers four or five site teams practiced erecting tents and working with the generators. About 1:30 we returned inside for a delicious lunch cooked for us by the staff at Milara – there even was a Ben & Jerry's ice cream truck in the parking lot for desert!

After lunch we once again had the opportunity to go outside, this time to lower the towers, pack up and move it back to the storage area where it will be ready for action this coming July. A brief recap of the outdoor exercises was held, more feedback obtained and everyone headed for home around 4:00 PM.

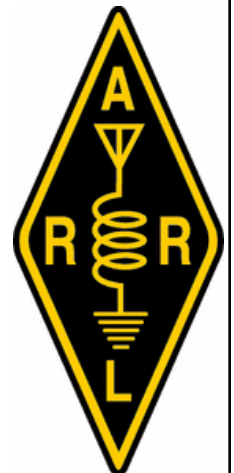
All in all a full day of ham radio and WRTC excitement. It was a pleasure to spend the day with a group of people so enthused about making WRTC-2014 a success and an example of the hospitality New England can extend to the world. There are still folks needed to help out and time for YOU to volunteer for the chance of a ham radio lifetime. If this sounds interesting lets talk about it after our June meeting.

Jim/KK1W

Join the ARRL or renew your membership!

ARRL members enjoy:

- QST Magazine
- Members-Only Web Services
- Technical Information Service
- Member Discounts
- Outgoing QSL Service
- Continuing Education
- ARRL as an Advocate
- Regulatory Information Branch
- Public Relations for Amateur Radio
- ARRL Field Organization
- ARRL-sponsored contests
- Operating Awards
- Local Clubs
- Amateur Radio Emergency Service
- Hamfests and Conventions
- Volunteer Examiner Coordinator Program



<http://www.arrl.org/membership>

Local happenings

(All times are local time)

Sundays: 0845: Western Mass Emergency Net 146.94, PL 127.3 - W1TOM/R

First Monday: Southwick Regional RACES Drill, 1845, 146.49 Simplex

Mondays: 1930: HCRA 10m Net 28.375

Tuesdays: 1930-2000: 146.94, PL 127.3 - W1TOM/R - Hampshire County Emergency Net

Wednesdays: 1930: MTARA Info net 146.94, PL 127.3 - W1TOM/R - includes NTS Net

2000: MTARA Swap net: 146.94, PL 127.3 - W1TOM/R

2000: MTARA Simplex Net - starts on 146.94 - PL 127.3, then goes to 146.42 direct (simplex) Usually starts immediately following the swap net.

Thursdays: 2100: Weather Net (Roger, K1PAI Net Control), 1st Thursday of every month: 147.090 MHz, All other Thursdays: 147.000, PL 127.3 - W1TOM/R

Fridays: 1200: BB's (Brown Baggers Luncheon)

Munich House

13 Center Street

Chicopee, MA 01013

Expect between 6 and 12 attendees every Friday. Good food, great company!

Club meetings & VE sessions

1st Friday of the month 7:30 PM, HCRA Club Meeting, Holyoke Hospital Auxiliary Conference Center, 575 Beech St. Holyoke MA 01040 (no meetings held in July or August) <http://www.hcra.org/meeting-location/>

3rd Friday of the month 7:30 PM, MTARA Club meeting, Red Cross building 506 Cottage St, Springfield, Mass. (no meetings held in July or August)

4th Friday of the month 6:00 PM, Technician, General, and Extra Class License Exams, Holyoke Hospital Auxiliary Conference Center, 575 Beech Street, Holyoke, Mass. Hosted by the Western Mass VE Team (WMVET). Contact: David Cote, w1fab@arrl.net

Third Monday of the month 7:00 PM, Franklin County Amateur Radio Club meeting, Greenfield High School (no meetings held in July or August) <http://www.fcarc.org/>

4th Monday of February, May, August, November 7:00 PM, FCARC VE Exams, Unitarian Church, Main Street, Northfield <http://www.fcarc.org/>

Next YCCC Meeting is Saturday, April 6th, 1:00 pm - 4:30 pm, Sturbridge Host Hotel, Sturbridge, Mass. <http://www.yccc.org/>

Flea markets coming up

15 June **Newington CT** NARL @StMarySch \$5@8 \$15/T
Vinnie W1VJA 203 987 2108

16 June **Cambridge MA** FLEA at MIT Nick 617
253 3776 F Third Sunday April thru October

30 June **Queens NY** HOSARC \$5@9 +\$10S@7:30 Stephen
WB2KDG 718 898 5599 W

21 July **Cambridge MA** FLEA at MIT Nick 617 253 3776 F

10 Aug **Milo ME** PARC @AmLegion George W1JMM 207 441
6112 A+

18 Aug **Cambridge MA** FLEA at MIT Nick 617 253 3776 F

25 Aug **N Adams MA** NoBARC @BoweFld \$5@9 \$10TG@8
Tim KE3HT 413 822 7075 F

7 Sept **Ballston Spa NY** SCRACES @FG @7 Darlene N2XQG
518 587 2385

7 Sept **Windsor CT** VR+C Mus 115 Pierson LN @8AM Outdoor
John 860 673 0518

7 Sept **Windsor ME** AARA @FG Bill K1NIT 207 512 0312 A+

8 Sept **Newtown CT** CARA @TownHall \$5@8:30 \$10/TG \$15/T
Joe AB1DO 203 938 4880

HCRA contact list

President, Jim Mullen KK1W (413) 237-4666
kk1w@arrl.net

Vice-President, Ed LaCombe KB1NWH (413) 250-3137
kb1nwh@comcast.net

Treasurer, Dave Cain AA1YW (413) 569-6901
aa1yw@arrl.net

Secretary, Dave Scarpa N1MFL (413) 241-0139
scarpad@comcast.net

At Large, Marty Bowen W1MJB (413) 525-3717
w1mjb@arrl.net

Newsletter, Frandy Johnson N1FJ (413) 584-9005
n1fj@arrl.net

Programs, John Pise KX1X (413) 532-7474
kx1x@arrl.net

Membership, Rich Wheeler N1KXR (413) 584-3372
n1kxr@arrl.net

Technical, Matt Wilhelm W1MSW (413) 336-4701
w1msw@arrl.net

Skywarn Liaison, Eric Tuller N1QKO (413) 967-3869
et-n1qko@juno.com

VE Session Liaison, Dave Cote W1FAB (413) 575-2950
w1fab@arrl.net

NEQP Soapbox:

(Mike, NZ1MT) I'm back for my second New England QSO Party and hoping to keep the QRP record for Hampden County, Mass. The weather at my QTH was absolutely perfect this weekend, a little cool on Sunday morning but a deep blue clear sky with bright sunshine



all day. Far too nice a day to be inside the shack, so once again operated backyard portable from the patio table. I was using the trusty FT-817ND running on solar power which fed an LNR Par EndFedz EFT-10/20/40 trail friendly antenna strung up in the trees. Thanks to all who pulled out my weak QRP signal. See you all again next year! 72,
Mike - NZ1MT

REVIEW: TE-NE-KE CW PADDLE

(Frandy, N1FJ) Here's the blurb from their website:

"Looking for an affordable, portable CW paddle? You've found it! The Te-Ne-Ke ("teeny key") is an iambic paddle built in West Michigan by members of the North Ottawa Amateur Radio Club. The contacts are made from beryllium copper springs and brass pins, attached to a stainless steel head."

How well does it live up to the hype? I'd give it a 3.5 or 4 out of 5, since it works and is inexpensive. It costs a lot less than most other paddles, running \$45 delivered, and it was shipped very promptly. I ordered it without the



optional base since I mounted it on my SOTA clipboard. Workmanship was fair. I felt the beryllium copper springs are vulnerable to damage, so care is needed when packing for an expedition, such as SOTA. I also thought it was heavier than necessary. Adjustment was a little tricky, but once I got it right it stayed that way. The standard audio cable is a plus. (Palm Paddle, Bencher, etc. take note!)

Frandy, N1FJ

<http://w8cso.org/index.php?page=teneke>

Meeting Location

Our meetings are being held at the Auxiliary Conference Center at the Holyoke Medical Center. Many of you have been here before, it's where the Western Mass VE Team has given examinations for close to a decade. We have all the details of the hall and how to get there on our website. <http://www.hcra.org/meeting-location/>

Our new location is newly renovated with state of the art heating and cooling, comfortable chairs, a complete A/V setup including screen, projector, sound system and wi-fi. Handicap access, convenient rest room, vending machines and 24/7 security round out the list. Join us!





Next HCRA Meeting- Indoor Tailgate Party

In lieu of a tailgate party in the parking lot in Feeding Hills, we are going to have a small-scale flea market on June 7. As long as space permits, we will allot about 12 square feet of table space to each club member that wants to put out a few things for sale -- a rig, a reel of wire, books – anything that fits and is not totally junk, but **NO computers, NO monitors, NO printers!** Table space is free--we are asking a minimum 10% commission on sales for the club's treasury.

WB1DBY has the following for sale:

Buddipole, with swivel arms, tripod, 8 foot pole, carry case, short coax run, manuals, excellent condition. Sells new for \$399 asking \$300.



CW paddles (Finnish, I think). Very smooth CW, on a marble base. Used to belong to a local ham (Ned). \$100.

Why am I selling these? I have too many portable antennas and paddles and they don't get used enough. They need a good home.

Contact: Larry, WB1DBY: wb1dby@comcast.net or 413-348-3289